

# EXCELTemp Cold-Chain Monitoring Solution



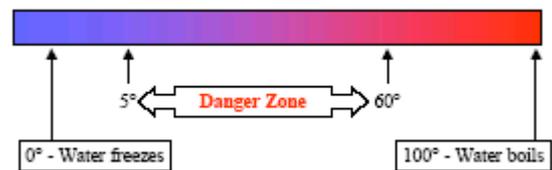
## Why Temperature Logging?

Temperature logging devices are used to **monitor** the **temperatures** during **manufacture, storage and transport** of temperature sensitive goods such as **food and medical supplies**. In recent years, increased awareness of issues such as **food safety (HACCP)** and **product quality** has driven the demand for temperature loggers and temperature logging systems.

Temperature loggers of various types have been around for decades. However, many of these devices have proven fragile, expensive and subject to damage by water or chemicals. Recent developments in technology have resulted in a new generation of **self-contained logging device** that is **robust, low priced and very small**.

## Don't Kill Your Customer

The market for conventional temperature loggers in areas such as food transport has been limited due to their high price. New low cost loggers make it possible to provide a temperature logging solution for a fraction of the cost of using conventional loggers. This low cost solution is therefore able to provide end users such as transport operators with the means to meet the increasing demand for temperature monitoring without high costs.



## Features:

- **Small** (16 mm in diameter and 6 mm thick) – easily attach to containers of frozen or fresh foods, blood products, chemicals or drug reagents and more....
- **Rugged** – All the electronic parts are sealed in form of a stainless steel compact button.
- **Self-sufficient system** – Up to 7 years battery lifetime or up to 1 million Temperature measurements.
- **Globally unique ID address**.
- **Low cost of Ownership**.
- **Programmable** delay start, High/Low temperature alarm set points.
- **User choices** of reporting table & Graph (report range, full or daily report, customize report).
- **Full flexibility** – Download data to Palm or PC for viewing, analysis, storage & reporting.
- **Customizable** to user requirements software solution.

## Hardware Technical Specifications:

- **Temperature range** : -40°C to +85°C (Res.: 0.5°C, Acc.: ± 1.0°C) or 0°C to +125°C, Temp/RH (Others range also available upon request)
- **Logger Memory** : From 2048 readings (6 weeks of readings taken at 30 minute intervals)
- **Logging interval** : Adjustable from 1 minute to 255 minutes.
- **Mounting & Fob** : Wide range of mounting & fob available and customizable to user applications

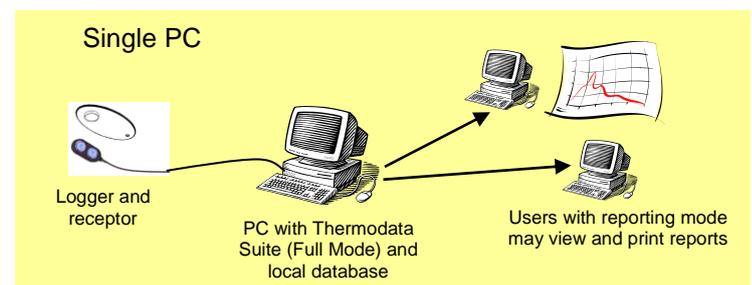
## Software Technical Specifications:

### Thermodata Viewer/Report

Recommended for user with stand-alone PCs and up to 20 loggers. No limit imposed.

- Configuration and management of loggers.
- Download of temperature readings from the loggers for display as graphs and printable reports.
- Saving of logged data to be archived or sent to other sites.

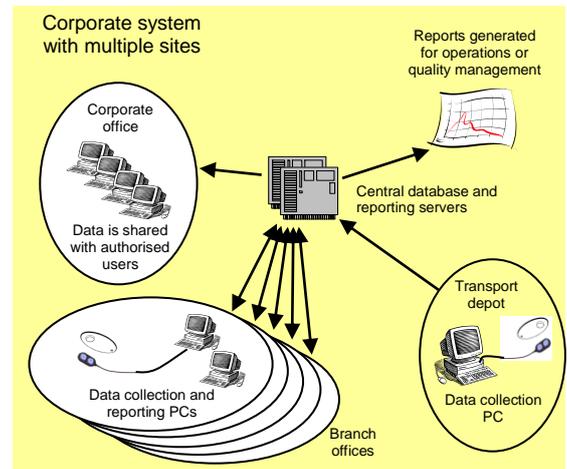
Thermo Reports also operates in viewer mode at no charge. This mode allows viewing and printing of data saved by users of the full version.



## Thermodata 3

medium to large businesses user who need to monitor temperatures in a large number of locations

- Extremely user friendly operation, with automated data collection and a simple form-based interface for most operations.
- Configuration and management of loggers according to location and usage (chillers, freezers etc.).
- Manual download and management of the temperature data from loggers.
- Database management features including backup, maintenance and connection to third party databases.
- Reporting of the data using a selection of standard reports and graphs as well as incorporation of customised Crystal reports.



Thermodata 3 may be simply installed by the user to run on a single PC or a small group of PCs. It may also be integrated into a large system covering many users and locations.

Thermodata 3 also operates in Viewer Mode which is provided at no charge. This mode allows users to connect to the database of a user with Full Mode to view and print data.

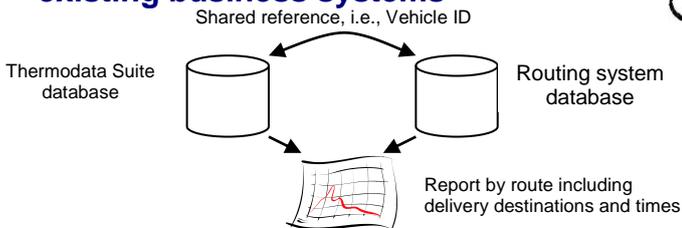
### Optional Solutions:

Download logger data to a TDHC Downloader. Data can import to Thermodata 3 Software on PC



- Data logger data download automatically within few second when touching to reader,
- Store up to 370 Logger for each Reader,
- Display no. of file currently in Reader
- Show details for Logger & any Alarm trigger.

### Integration with the user's existing business systems



Model	Temperature Range	Accuracy	Resolution	Values/Readings	Logging Rate
<a href="#">DS1921G</a>	-40°C to +85°C	± 1°C: -30°C to +70°C ± 1.3°C outside this range	0.5°C	2048	1 to 255 min
<a href="#">DS1921H</a>	+15°C to +46°C	± 1°C	0.125°C	2048	1 to 255 min
<a href="#">DS1921Z</a>	-5°C to +26°C	± 1°C	0.125°C	2048	1 to 255 min
<a href="#">DS1922L</a>	-40°C to +85°C	± 0.5°C: -10°C to +65°C (With software correction)	Programmable 0.5°C - 8 bit / 0.0625°C - 11 bit	8192 - 8 bit / 4096 - 16 bit	1 sec to 273 hrs
<a href="#">DS1922T</a>	0°C to +125°C	± 0.5°C: +20°C to +75°C	Programmable	8192 - 8 bit /	1 sec to 273 hrs
<a href="#">DS1922E</a>	115°C to +145°C	±1.5°C: +110°C to +140°C / ±7°C typical: +15°C to +110°C	0.5°C - 8 bit / 0.0625°C - 11 bit	4096 - 16 bit	
<a href="#">DS1923</a> (Humidity and Temperature)	-20°C to +85°C Includes 0 to 100% Humidity Logger	± 0.5°C: -10°C to +65°C  (With software correction)	Programmable  0.5°C - 8 bit /0.0625°C - 11 bit	8192 - 8 bit /  4096 - 16 bit	1 sec to 273 hrs

### Excel Test Sdn Bhd (1230309-H)

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